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Inspec - 1898 to date (INZZ)

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0006048854 20051201.

Title
Optimal **thresholding** for **color** images.

Conference information
Nonlinear Image Processing IX, San Jose, CA, USA, 26-27 Jan. 1998.
Sponsor(s): SPIE; Soc. Imaging Sci. & Technol.

Source
Proceedings of the SPIE - The International Society for Optical Engineering, {Proc-SPIE-Int-Soc-Opt-Eng-USA}, 1998, vol. 3304, p. 250-9, 7 refs, CODEN: PSISDG, ISSN: 0277-786X.
Publisher: SPIE-Int. Soc. Opt. Eng, USA.

Author(s)
Celenk-M, Uijt-de-Haag-M.

Author affiliation
Celenk, M., Uijt de Haag, M., Sch. of Electr. Eng. & Comput. Sci., Ohio Univ., Athens, OH, USA.

Abstract
Color image **thresholding** is a special case of **color** clustering which is commonly used for tasks such as object detection, region segmentation, enhancement, and target tracking. As compared to the three-dimensional (3-D) **color** clustering, **thresholding** is computationally more efficient for computer implementation and pipelined hardware realization. Traditionally, this method operates on a particular **color** component whose distribution possesses more prominent peaks than the other two **color** histograms. In this operation, it is expected that the histogram peaks represent meaningful object areas. However, the **color** component **thresholding** results are less reliable than those of 3-D clustering because the valuable information in the other two **color** components are ignored in the region acceptance process. To improve the performance of **thresholding,** we describe a method that **thresholds** an input image three times on three different **color** components independently. The best **thresholds** are selected by optimizing the within-group **variance** or directed divergence measure for red, green, and blue distributions separately. The resultant three binary images are combined by means of a predicate logic function that makes use of a 3-input, 1-output majority logic gate. This enables 1-D **thresholding** mechanism to incorporate the information on all the **color** components in region acceptance process.

Descriptors
IMAGE-CLASSIFICATION; IMAGE-COLOUR-ANALYSIS; IMAGE-ENHANCEMENT; IMAGE-SEGMENTATION; IMAGE-TEXTURE; MAJORITY-LOGIC; OBJECT-DETECTION;

OPTIMISATION; TARGET-TRACKING.

Classification codes

B6140C Optical-information-image-and-video-signal-processing*;
B0260 Optimisation-techniques;
C1250 Pattern-recognition*;
C1180 Optimisation-techniques.

Keywords

optimal-thresholding; color-image-thresholding; color-clustering; object-detection; region-segmentation; image-enhancement; target-tracking; **3D-color-clustering;** pipelined-hardware; distribution-possesses; **color-histograms; color-component-thresholding;** input-image; directed-divergence-measure; **within-group-variance-** optimisation; binary-images; logic-function; majority-logic-gate; textured-image.

Treatment codes

T Theoretical-or-mathematical;
X Experimental.

Language

English.

Publication type

Conference-proceedings; Journal-paper.

Availability

SICI: 0277-786X(1998)3304L.250:OTCI; 1-#.
CCCC: 0277-786X/98/$10.00.

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Publication date

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Edition

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1983. (INZZ) High resolution image registration by **thresholded** difference.

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Accession number & update
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Title
High resolution image registration by **thresholded** difference.

Conference information
Applications of Digital Image Processing IV, San Diego, CA, USA, 24-27 Aug. 1982.

Source
Proceedings of the SPIE - The International Society for Optical Engineering, {Proc-SPIE-Int-Soc-Opt-Eng-USA}, 1983, vol. 359, p. 178-85, 12 refs, CODEN: PSISDG, ISSN: 0277-786X, USA.

Author(s)
Pinson-L-J.

Author affiliation
Pinson, L.J., Dept. of Electrical Engng. & Computer Sci., Univ. of **Colorado, Colorado** Springs, CO, USA.

Abstract
The accuracy of image registration methods is dependent on peak sharpness which is dependent on scene content. As a result of characterizing joint scene content in terms of the joint probability density function, a new registration metric is defined as the **thresholded** difference (TD) method. It produces a sharper correlation peak than either the direct cross-correlation or mean absolute difference methods. Analytical comparisons and simulations are presented which show the TD method to exhibit less dependence on scene content than other pixel-by-pixel registration metrics. The method is easily normalized by a simple rescaling of both images to the same range of gray levels. The **thresholded** difference registration metric is evaluated in terms of registering images which are incompatible due to additive noise, different spectral bands, temporal variations and scale differences. Simulation results show the TD method to be as good or better than other pixel-by-pixel correlation methods. An optimum **threshold** of half the image difference **standard deviation** at registration is indicated by simulation results. The TD method offers promise for enhanced registration accuracy for noncompatible images.

Descriptors
PICTURE-PROCESSING.

Classification codes
B6140C Optical-information-image-and-video-signal-processing*.

Keywords
image-registration; **thresholded-difference;** peak-sharpness; scene-content; joint-probability-

density-function; **thresholded-difference;** direct-cross-correlation; mean-absolute-difference; pixel-by-pixel-registration-metrics; rescaling; gray-levels; additive-noise; spectral-bands; temporal-variations; scale-differences; **standard- deviation;** noncompatible-images.

Treatment codes
T Theoretical-or-mathematical.

Language
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Conference-proceedings; Journal-paper.

Publication year
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